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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

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22 October 1999 (22.10.99)

Applicant

RUSH, Gary, W. et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	22 May 2000 (22.05.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under
	Rule 32.2(b)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Pascal Piriou

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States (71) Applicant (for all designated except MADE2MANAGE SYSTEMS, INC. [US/US]: Suite 200, 9002 Purdue Road, Indianapolis, IN 46268 (US).

(72) Inventors; and

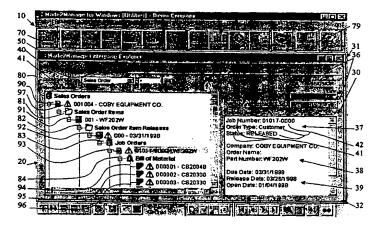
- (75) Inventors/Applicants (for US only): RUSH, Gary, W. [US/US]; 2703 Sleepy Hollow Drive, Lafayette, IN 47904 (US). KIEFUS, Herman, J. [US/US]; 338 South 26th Street, Lafayette, IN 47904 (US).
- (74) Agents: WOOD, James, D. et al.; Ice Miller Donadio & Ryan, One American Square, Box 82001, Indianapolis, IN 46282

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Published

With international search report. With amended claims and statement.

(54) Title: NAVIGATIONAL INTERFACE FOR ERP SYSTEM



(57) Abstract

The present invention comprises a software system having a user-friendly navigational interface utilizing an hierarchical display (20) of business documents based upon a dominant-subordinate relationship between the documents. In one embodiment, the documents are related through the use of keys, which define a relationship between the dominant (81) and the subordinate documents (91). In conjunction with the selection of a specific document, the invention displays information related to that document which can be custom defined by the user. In one embodiment, each user can define a unique set of data to be displayed. The invention further provides a means by which the underlying data can be easily edited from the hierarchical display (20). The present invention also allows the creation of expressions (230, 231) that will alert the user to predetermined conditions. The alert is displayed in conjunction with the hierarchical display (20) of a document, but the expression (230, 231) may be defined by data not normally contained within the document. Each user can define a unique set of alerts for various documents. The present invention further comprises a visual rendering of predefined expressions describing the progress of work related to a document and each user can also define a unique set of progress of expressions (250) for various documents based on conditions of particular interest to the user.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/24859

	SSIFICATION OF SUBJECT MATTER					
' ()	IPC(6) :G06F 3/14 US CL : 345/356,357; 705/30,34; 707/514					
According to International Patent Classification (IPC) or to both national classification and IPC						
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	ocumentation searched (classification system followed 345/356,357; 705/30,32,33,34; 707/514,515	d by classification symbols)				
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST 1.2 DIALOG LINK					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
Y,P	US 5,923,328 [GRIESMER] 13 July 1	999. Abstract, Fig.5	1-92			
Y	US 5,801,702 [DOLAN et al.] 01 Sept	tember 1998 Abstract, Fig.2	1-92			
A	The Windows Sources catalog (Be Computing, September 1993	uyer Guide), Gale Group	1-92			
A	Managing Your Money for Windo Software, Inc. 1994. pages 1-123,222,231,237-238,243-251		1-92			
Forest	ner documents are listed in the continuation of Box C	See notest family concer				
	ecial categories of cited documents:	See patent family annex.	ernational filing date or priority			
"A" do	cument defining the general state of the art which is not considered	date and not in conflict with the app the principle or theory underlying the	lication but cited to understand			
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29 DECEMBER 1999 13 JAN 2000						
Commission Box PCT	mailing address of the ISA/US oner of Patents and Trademarks	RAYMOND J. BARRIED R.	Mottheries			
Washington, D.C. 20231 Facsimile No. (703) 308-6606 Telephone No. (703) 305-9789						

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P00240-W-1(12178.0015)	FOR FURTHER ACTION	See Notific Preliminary E	ation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (dep/month/year) Priority date		Priority date (day/month/year)
PCT/US99/24859	22 OCTOBER 1999		22 OCTOBER 1998
International Patent Classification (IPC) IPC(7): G06F 3/14 and US Cl.: 345			
Applicant MADE2MANAGE SYSTEM, INC			
Examining Authority and is 2. This REPORT consists of a This report is also accombeen amended and are the	transmitted to the applicant a total of sheets. panied by ANNEXES, i.e., shee	ts of the descri	ption, claims and/or drawings which have rectifications made before this Authority
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Date of submission of the demand	Date	of completion	of this report
22 MAY 2000	1	0 JULY 2000	
Name and mailing address of the IPEA/ Commissioner of Patents and Trader Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	narks	AYMOND J.	BAJERMES R. Matthews



International application No.

PCT/US99/24859

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statement			
Novelty (N)	Claims	1-93	YE
	Claims	NONE	NO
Inventive Step (IS)	Claims	1-93	YE
,	Claims	NONE	NO
Industrial Applicability (IA)	Claims	1-93	YES
	Claims	NONE	NO
citations and explanations (Rule 7		tle 33(2)-(3), because although Dolan et al.(U.S,A, 5,80	
of an item is selected, and Griesmer (U.S,A, screen spaces effectively. However, Griesmer art does not teach or fairly suggest the navigal established progression, defining the relations a typical business environment and defining a 23). Claims 1-93 have industrial applicable.	5,923,328) tear does not qualition feature su hips betwwen llowed navigat	ich representation of links that being dependent upon the aches in detail of a hierachical sub-tree bar control for the lifty as prior art under PCT Rule 64.1, and furthermore, ach as relating business documents according to a previous different types of business documents as they are encounted paths between the plurality of business documents (see Tarticle 33(4) because the subject matter claimed can be according to a previous paths between the plurality of business documents (see Tarticle 33(4) because the subject matter claimed can be according to a previous paths.	itilizing the prio usly ntered in see claim
or used in industry.			
NONE			



International application No.

PCT/US99/24859

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

I. BASIS OF REPORT:

This report has been drawn on the basis of the description, page(s) 1-52, as originally filed. page(s) NONE, filed with the demand. and additional amendments:

NONE

This report has been drawn on the basis of the claims, page(s) 53-82, as originally filed.
page(s) NONE, as amended under Article 19.
page(s) 83, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the drawings, page(s) 1-14, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the sequence listing part of the description: page(s) NONE, as originally filed.
pages(s) NONE, filed with the demand.
and additional amendments:
NONE

5. (Some) amendments are considered to go beyond the disclosure as filed: NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application N

PCT/US99/24859

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UNISYS XP-002144894 News Release

Contacts:

Kary Galloway, Unisys, (215) 986-4590 Internet kary galloway@unisys.com

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	P. 1-4 (4)
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Unisys Commits to Global Interactive Video Services Market with Video on Demand Solution

Blue Bell, PA, December 15, 1999 — Unisys Corporation today announced its Unisys e-@ction Interactive Television Services solutions, advanced electronic business solutions enabling cable operators and telecommunication companies to realize new sources of revenue capitalizing on the emerging interactive television market.

Video on demand, the first in a series of interactive television applications. Unisys plans to make available, integrates a number of technological advances into a single high performance, low cost solution. Unisys video on demand allows subscribers to view movies with video player capabilities at any time, around the clock. The Unisys approach allows a high concurrency per video, enabling the system to scale to meet growing demand. The technological advantage of the Unisys solution is augmented by large scale server computers running Microsoft Windows NT and engineered for extremely high I/O bandpass that can send up to 7,200 concurrent video streams per server in a system that is designed to accommodate multiple servers with predictable competitive costs per subscriber.

"We believe there is an untapped market for interactive video services developing," said Brian Hadfield, who heads Business Development and Communications for Unisys Systems & Technology. "We are entering this market with a video on demand component that we believe is unparalleled in price, performance and scalability. As cable operators implement this solution wide-scale, and look to new revenue sources from interactive video services, Unisys is prepared to offer a range of complementary interactive services that the operators can deliver to their subscribers' homes."

How Unisys video on demand works

The Unisys system is comprised of the multimedia application server, based on Unisys e-@ction Enterprise Servers, and the video servers. The multimedia application server provides the centralized management and control of the VOD system, managing all the subscriber and content

databases and providing interfaces to billing systems used in the industry. It also serves as the central processing point for all set top remote control commands and directs the video servers to stream content to set top boxes.

- The subscriber uses a VCR-like remote control to select a film from a m nu on the television screen. Th set-top box decodes the s lection and sends a message to th network, which routes it to the multimedia application serv r.
- The multimedia application server verifies the subscriber's authorization to receive the video, logs the transaction against the subscriber's account for billing, and locates the video on one of the video servers.
- When the subscriber is authorized to receive the video, the
 multimedia application server instructs the video server to stream
 the video to the subscriber's set-top box. If the video is not currently
 loaded on a video server, the multimedia application server retrieves
 it from storage and loads it onto an available video server for
 delivery.

Unisys has worked closely with a number of partners in designing an open system that will interface with a variety of interactive television applications in the future. Unisys has partnered with Prasara Technologies in developing an interface for add-on services, which include Prasara's television banking, food ordering, community information and newly added e-retailing applications. In addition, Prasara has developed business management tools that record, track, and initiate billing procedures for purchases from the backend of the system.

The Unisys video on demand solution can interface with multiple set-top boxes and their associated software (navigators, electronic programming guides, etc.) Unisys has been working with General Instrument Corporation, Scientific Atlanta and Bosch in creating a system that fully integrates with a number of platforms.

"We are pleased to work with Unisys on integrating the Unisys video on demand service and enabling it on GI's industry leading interactive digital platform," said Kevin Keefe, director of product marketing for GI's Digital Network Systems business unit. "We hope to continue working closely with Unisys as they develop and deploy their interactive, on-demand service for the digital cable market."

"We are pleased that our work with Unisys will soon expand cable operators' ability to realize new revenue per household by offering interactive television solutions while accelerating equipment return on investment and protecting them from satellite competitors," said Kevin O'Brien, Business Development Manager, Scientific Atlanta. "Scientific Atlanta's state of the art Explorer platform and network technology provides the experience necessary to design,

deploy, and operate digital interactive cable television systems."

"The Unisys products, combined with the Bosch access network products, enhance the commercial viability of VOD services as part of a full-service capability we offer to our international customers," said Walt Davis, product manager for iFLX platforms at Bosch. "The scalability of the Unisys products is key to deployment."

System Architecture

Unisys video on demand is defined as a variable number of video servers managed by a multimedia application server. The video servers stream data to the subscriber's television top receiver. Each video server can be expanded up to 7,200 streams at 3 mbit/sec. Adding more video servers accommodates further expansion. Configurations with hundreds of thousands of streams can be managed with ease. As new video servers are added, the system scales linearly in performance. The multimedia application server can be scaled from two processors to eight processors and, on a second dimension, up to eight operating systems. The multimedia application server's capacity to manage video servers is virtually unlimited.

Accounting Features

Unisys video on demand provides browser-style administrative controls for billing and access to films. A database of subscriber profiles is maintained to determine which viewers are authorized to access which films. The system records the initiation of a video stream in the system log for use in billing and the format of the billing records can match whatever interface standards the service provider specifies. For providers who want to post usage of particular streams electronically, the system can gather the usage data for transmission to a centralized asset tracking authority.

Unisys e-@ction Interactive Television Services solutions will be demonstrated at the Unisys booth at the Western Cable Show in Los Angeles, December 15-17, 1999. Both the video on demand service and the interface including add-on services (food ordering, home banking, community information) with Prasara will be featured.

About Unisys

Unisys is an electronic business solutions company whose 36,000 employees help customers in 100 countries apply information technology to seize opportunities and overcome

challenges of the Internet economy. Unisys people integrate and deliver the solutions, services, platforms and network infrastructure required by business and government to transform their organizations for success in this new era. The company offers a rich portfolio of Unisys e-@ction Solutions for electronic business based on its expertise in vertical industry solutions, network services, outsourcing, systems integration and multivendor support, coupled with enterprise-class server and related technologies. The primary vertical markets Unisys serves worldwide include financial services, transportation, communications, publishing and commercial sectors, as well as the public sector, including federal government customers. Unisys is headquartered in Blue Bell, Pennsylvania, in the Greater Philadelphia area. For more information on the company, access the Unisys home page on the World Wide Web at www.unisys.com. Investor information can be found at www.unisys.com/investor.

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